## **Source Code Analysis Tools - References**

Cigital, Inc.

Copyright 2006 Cigital, Inc.

2006-06-12

Content area bibliography.

Aleph One. "Smashing the Stack for Fun and Profit." *Phrack Magazine* 7, 49 (1996): File 14 of 16. http://www.phrack.org/phrack/49/P49-14.

Anderson, Robert H. & Hearn, Anthony C. An Exploration of Cyberspace Security R&D Investment Strategies for DARPA: The Day After... in Cyberspace II. RAND Corporation. MR-797-DARPA, 1996.

Anderson, Ross. Security Engineering. New York, NY: John Wiley & Sons, 2001.

AusCERT. A Lab Engineer's Check List for Writing Secure Unix Code. Australian Computer Emergency Response Team, 1996.

Bellovin, Steven M. Shifting the Odds--Writing (More) Secure Software. Murray Hill, NJ: AT&T Research, 1994.

Boehm, Barry W. "A Spiral Model of Software Development and Enhancement." *Computer 21*, 5 (May 1988): 61-72.

Boehm, Barry W. "Improving Software Productivity." Computer 20, 9 (September 1987): 43-57.

Boehm, Barry W. & Papaccio, Philip N. "Understanding and Controlling Software Costs. *IEEE Transactions on Software Engineering 14*, 10 (October 1988): 1462-1477.

Boehm, Barry W. Software Engineering Economics. Englewood Cliffs, NJ: Prentice-Hall, 1981.

Bishop, Matt. Computer Security: Art and Science. Boston, MA: Addison-Wesley Professional, 2002.

CERT/CC. CERT Survivability Project Report. CERT Coordination Center, 1996.

Chess, Brian & McGraw, Gary. "Static Analysis for Security." *IEEE Security and Privacy* 2, 6 (December 2004): 76-79.

Clements, Paul; Bachmann, Felix; Bass, Len; Garlan, David; Ivers, James; Little, Reed; Nord, Robert; & Stafford, Judith. *Documenting Software Architectures: Views and Beyond*. Boston, MA: Addison-Wesley, 2002.

Cowan, Crispin; Wagle, Perry; Pu, Calton; Beattie, Steve; & Walpole, Jonathan. "Buffer Overflows: Attacks and Defenses for the Vulnerability of the Decade." *Proceedings of DARPA Information Survivability Conference and Expo (DISCEX)*, 1999.

Cowan, Crispin; Beattie, Steve; Finnin Day, Ryab; Pu, Calton; Wagle, Perry; & Walthinsen, Erik. "Protecting Systems from Stack Smashing Attacks with StackGuard." *Proceedings of the 1998 Usenix Security Conference*, 1998.

Demarco, Tom & Lister, Timothy. Waltzing With Bears: Managing Risk on Software Projects. New York, NY: Dorset House Publishing Company, 2003.

Du, Wenliang. "Categorization of Software Errors That Led to Security Breaches." *Proceedings of the 21st National Information Systems Security Conference*. Crystal City, Virginia, Oct. 6-9, 1998.

http://csrc.nist.gov/nissc/1998/papers.html.

Fenton, Noramn E.. & Pfleeger, Shari Lawrence. *Software Metrics: A Rigorous and Practical Approach*, 2nd ed. New York, NY: International Thomson Computer Press, 1996.

Garfinkel, Simson; Spafford, Gene; & Schwartz, Alan. *Practical Unix & Internet Security*, 3rd ed. Sebastopol, CA: O'Reilly & Associates, Inc., 2003.

Gilb, Tom. Principles of Software Engineering. Workingham, England: Addison-Wesley, 1988.

Ghosh, Anup K.; O'Connor, Tom; & McGraw, Gary. "An Automated Approach for Identifying Potential Vulnerabilities in Software," 104-114. *Proceedings of the 1998 IEEE Symposium on Security and Privacy*. Oakland, California, May 3-6, 1998. Los Alamitos, CA: IEEE Computer Society Press, 1998.

Gong, Li. Inside Java 2 Platform Security. Reading, MA: Addison Wesley, 1999.

Graff, Mark G. & Van Wyk, Kenneth R. *Secure Coding: Principles and Practices*. Sebastopol, CA: O'Reilly, 2003.

Hoglund, Greg & McGraw, Gary. *Exploiting Software: How to Break Code*. Boston, MA: Addison-Wesley, 2004.

Howard, Michael. *Designing Secure Web-Based Applications for Microsoft Windows 2000*. Redmond, WA: Microsoft Press, 2000.

Howard, Michael & LeBlanc, David C. Writing Secure Code, 2nd ed. Redmond, WA: Microsoft Press, 2002.

Jones, Capers. *Applied Software Measurement: Assuring Productivity and Quality*. New York, NY: McGraw-Hill, 1991.

Jones, Capers. Assessment and Control of Software Risks. Englewood Cliffs, NJ: Yourdon Press, 1994.

Jones, Capers. Programming Productivity. New York, NY: McGraw-Hill, 1986.

Kitson, David H. & Masters, Stephen. "An Analysis of SEI Software Process Assessment Results, 1987-1991," 68-77. *Proceedings of the Fifteenth International Conference on Software Engineering*. Baltimore, Maryland. May 17-21, 1993. Washington, DC: IEEE Computer Society Press, 1993.

Kuperman, Benjamin A. & Spafford, Eugene. *Generation of Application Level Audit Data via Library Interposition*. CERIAS Tech Report TR-99-11, 1999.

Maguire, Steve. Writing Solid Code: Microsoft's Techniques for Developing Bug-Free C Programs. Redmond, WA: Microsoft Press, 1993.

McConnell, Steve. *Code Complete: A Practical Handbook of Software Construction*. Redmond, WA: Microsoft Press, 1993.

McGraw, Gary. "Software Security." IEEE Security and Privacy 2, 2 (March-April 2004): 80-83.

McGraw, Gary. "From the Ground Up: The DIMACS Software Security Workshop." *IEEE Security and Privacy 1*, 2 (March-April 2003): 59-66.

McGraw, Gary. "Managing Software Security Risks." Computer 35, 4 (March 2002): 99-101.

McGraw, Gary & Potter, Bruce. "Software Security Testing." *IEEE Security and Privacy* 2, 5 (September-October 2004): 81-85.

McGraw, Gary, & Felten, Edward W. Securing Java: Getting Down to Business with Mobile Code, 2nd

ed. New York, NY: John Wiley & Sons, 1999.

Miller, Barton P. "An Empirical Study of the Reliability of UNIX Utilities." *Communications of the ACM 33*, 12 (1990).

National Center for Supercomputing Applications. *NCSA Secure Programming Guidelines*. http://archive.ncsa.uiuc.edu/General/Grid/ACES/security/programming/ (1997).

Peikari, Cyrus & Chuvakin, Anton. Security Warrior. Sebastopol, CA: O'Reilly, 2004.

Saltzer, Jerome H. & Schroeder, Michael D. "The Protection of Information in Computer Systems." *Proceedings of the IEEE 63*, 9 (September 1975): 1278-1308.

Sessions, Roger. *Software Fortresses: Modeling Enterprise Architectures*. Boston, MA: Addison-Wesley, 2003.

SSwiderski, Frank & Snyder, Window. Threat Modeling. Redmond, WA: Microsoft Press, 2004.

Soo Hoo, Kevin; Sudbury, Andrew W.; & Jaquith, Andrew R. "Tangible ROI through Secure Software Engineering." *Secure Business Quarterly 1*, 2 (2001).

Spafford, Eugene H. "Crisis and Aftermath." Communications of the ACM 32, 6 (1989).

Spafford, Eugene H. *UNIX and Security: The Influences of History. Information Systems Security.* Auerbach Publications, 1995.

Sun Microsystems. Security Code Guidelines. http://java.sun.com/security/seccodeguide.html (2000).

Swanson, Marianne & Guttman, Barbara. *Generally Accepted Principles and Practices for Securing Information Technology Systems*. National Institute of Standards and Guidelines Computer Security Special Publication 800-14, 1996.

Thompson, Ken. "Reflections on Trusting Trust." Communications of the ACM 27, 8 (August 1984).

Viega, John; McGraw, Gary; Mutdoseh, Tom; & Felten, Edward W. "Statically Scanning Java Code: Finding Security Vulnerabilities." *IEEE Software 17*, 5 (September-October 2000): 68-77.

Viega, John & McGraw, Gary. *Building Secure Software: How to Avoid Security Problems the Right Way.* Boston, MA: Addison-Wesley Professional, 2001.

Viega, John & Messier, Matt. *Secure Programming Cookbook for C and C++*. Sebastopol, CA: O'Reilly, 2003 (ISBN: 0596003943).

Voas, Jeffrey & McGraw, Gary. Software Fault Injection: Inoculating Programs Against Errors. New York, NY: John Wiley & Sons, 1997.

Whittaker, James A.; Thompson, Herbert H.; & Thompson, Herbert. *How to Break Software Security*. Boston, MA: Addison Wesley, 2004 (ISBN: 0321194330).

Yoder, Joseph & Barcalow, Jeffrey. "Architectural Patterns for Enabling Application Security." *Proceedings of the 1997 Pattern Languages of Programming Conference*. Monticello, Illinois, Sept. 3-5, 1997. Washington University Technical Report (wucs-97-34). http://st-www.cs.uiuc.edu/~hanmer/PLoP-97/Proceedings/proceedings.zip (1998).

## Cigital, Inc. Copyright

Copyright © Cigital, Inc. 2005. Cigital-authored documents are sponsored by the U.S. Department of Defense under Contract FA8721-05-C-0003. Cigital retains copyrights in all material produced under

this contract. The U.S. Government retains a non-exclusive, royalty-free license to publish or reproduce these documents, or allow others to do so, for U.S. Government purposes only pursuant to the copyright license under the contract clause at 252.227-7013.

Permission to reproduce this document and to prepare derivative works from this document for internal use is granted, provided the copyright and "No Warranty" statements are included with all reproductions and derivative works.

For information regarding external or commercial use of copyrighted materials owned by Cigital, including information about "Fair Use," contact Cigital at copyright@cigital.com<sup>1</sup>.

## **Fields**

Name	Value
Copyright Holder	Cigital, Inc.

## **Fields**

Name	Value
is-content-area-overview	false
Content Areas	Tools/Code Analysis
SDLC Relevance	Testing
Workflow State	Publishable

<sup>1.</sup> mailto:copyright@cigital.com